

~~SECRET~~

11-6453

9235

34137

SC

17 July 1947

ORE, Scientific Branch

CONTROL

Transmission of Report

1. There is transmitted herewith for your information and retention a copy of report TI - 6453 which concerns the rocket "Schmetterling" and its guiding device, the "Berlin-Geraet".

Encl.

Document No. 007  
NO CHANGE in Class. ☐  
☒ DECLASSIFIED  
CLASS. CHANGED TO: TS S C  
DDA Memo, 4 Apr 77  
Auth: DDA REG. 77/1763  
Date: 3/2/78 By: DL3

CONTROL

q m  
B

~~SECRET~~

SECRET

34137

COUNTRY: Germany/Russian Zone

SUBJECT: 1) "Berlin-Gerast" (Radar device for "Schmetterling" rocket)  
2) Rocket "Schmetterling"

INFORMATION DATE: 21 Jan 1947

EVALUATION: B-3

REFERENCE: TI-6453

CONTROL

1. The "Berlin-Gerast" (radar device for "Schmetterling" rocket) has been developed jointly by the AEG and Telefunken. The man primarily responsible for this equipment is Dr. SCHULZ of Telefunken. As to the parts connected with high frequency, the services of the GEMA-Werke were requested. This equipment was mainly intended for the Schmetterling (Rheintochter) project. It is an ultra-short wave device adjustable to three frequencies. The equipment has the advantage of being free from interference and of having a considerably larger cruising radius than any other radar equipment. All equipment of this kind works on the principle of the Braun tubes; results can be measured by means of the Braun equipment for distances greater than 300 kilometers. (It has been possible to ascertain exact results of a German air attack on London, for instance, through using such an equipment made during the war).

It is most unlikely that drawings, descriptions, or any other information pertaining to this equipment should have fallen into Russian hands, as the manufacturing plant was transferred to a small community near Göttingen during the war. About 30 to 40 series of this device have been made. Since all technicians who worked on the development of this equipment are outside Russian reach, it is unlikely that the Russians would be able to develop this equipment any further. The plant was destroyed just before the end of the war during an air attack.

The firms Siemens and Gema worked on similar projects, such as on the project WASSERMANN and FENIAX, of which not more than 40 series have been built. The Wassermann equipment had the advantage that it reacted to three components (lateral position, height and distance).

2. The project SCHMETTERLING was sub-divided into two projects, namely 1) Project Rocket Schmetterling; 2) Radar Steering Equipment (Rheintochter), Askania. The Germans had become aware, during the war, that the steering was faulty and that it would be impossible to remedy the shortcomings. The rocket has been almost completely developed. Its technical designer, Dr. Kindler, was deported to Russia in October, 1945, against his will; he is said to have signed no contract. Dr. Kindler developed the computer (Rechner), while Professor Wagner, formerly of Telefunken, developed the rocket body.

CONTROL

SECRET

- 2 -

ROLL

The radar equipment, made by Askania, was connected with the Berlin-Gernat. It reacted by means of three axes to four components, namely lateral position, height, slanted distance and angular position. 30 models of this equipment were made by the Germans. Experiments were carried through in Peenemuende and on Sylt which showed up irregularities as to the steering. At one time, for instance, a rocket was launched in Peenemuende; it suddenly started falling vertically toward the ground and all steering manipulations were of no avail. All persons present dispersed in all direction, with the exception of the man in charge of steering who tried frantically to control the rocket. Shortly before reaching the ground, the rocket suddenly straightened out and reacted to the steering. Exactly the same deficiencies in steering exist today. The technical designer of the control stick, engineer Walter, formerly of Askania, Hirschberg, is at present working for the Russians and is continuing work on the control stick; he had, however, made no progress at all by November, 1946. This project has also been transferred to Russia; however, without engineer Walter.

Informant is of the opinion that Dr. Kindler will be unable to carry through successfully the Schmetterling project in Russia, since he is lacking the necessary assistants, namely that of Professor Wagner, the developer of the rocket, and of technical designers for the radar steering equipment.

TOP SECRET

SECRET

TOP SECRET

SECRET

SECRET

SECRET

**Page Denied**